

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
7/24 to 7/25/14

API No. 15
007-24,139-00-00

Company LB Exploration, Inc.		Lease Boyd		Well Number 2	
County Barber	Location SENWNWNW	Section 34	TWP 32S	RNG (E/W) 13W	Acres Attributed
Field		Reservoir Miss		Gas Gathering Connection Oneok	
Completion Date 3/21/14		Plug Back Total Depth		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 4690	Perforations 4530	To 4580
Tubing Size 2.875	Weight	Internal Diameter	Set at 4528	Perforations	To
Type Completion (Describe) single		Type Fluid Production Oil/SW		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .0591		% Nitrogen 6.979	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/20 20 14 at 11:30 am (AM) (PM) Taken 7/24 20 14 at 11:30 am (AM) (PM)					
Well on Line: Started 7/24 20 14 at 11:30 am (AM) (PM) Taken 7/25 20 14 at 11:30 am (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 96 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						573	587.4	572	586.4	96	
Flow	1.250	81	6.2	81		529	543.4	278	292.4	24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
8.329	95.4	24.32	1.217	.9804	-----	242		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 345.038 ; (P_w)² = 295.283 ; P_a = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_d)² = _____

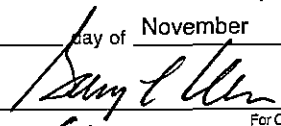
(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
344.831	49.755	6.930	.8407	.699	.5876	3.87	936

Open Flow 936 Mcfd @ 14.65 psia X .50 = Deliverability 468 Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 7th day of November, 2014.

Witness (if any)

For Commission



For Company
Checked by

Received
KANSAS CORPORATION COMMISSION
NOV 12 2014
CONSERVATION DIVISION
WICHITA, KS